

ABSTRACT

An Active Pixel Sensor (APS) system is provided with photosensing circuitry for providing a photosignal related to an intensity of incident light on a pixel during an exposure period and converting circuitry operatively connected to said photosensing circuitry to provide an intensity-time signal in a first duration or second duration during the exposure period in response to incident light of a respective first or second range of intensities and to respond to the intensity-time signal to provide a first digital count or a sum of first and second digital counts related to the intensity of the incident light of the respective first or second range of intensities.